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Appln. No. 09/832,435 Amdt. dated May 22, 2006 In Reply to Office Action of Feb. 22, 2006

- an error detection module for determining, based upon said syndromes, a number of errors within said codeword; and
- a comparator for comparing said number of errors to a threshold value, said codeword corresponding to a valid codeword when said number of errors is less than said threshold value.
- 18. (Currently Amended) The codeword synchronization module of claim 4 3 further including an error correction circuit for carrying out an error correction operation on said codeword using error correction information provided by said plurality of phase synchronizers.
- 19. (Original) The method of codeword synchronization of claim 9 further including carrying out an error correction operation on said codeword on the basis of an error location polynomial derived from said first syndromes.
 - 20. (Previously Presented) A codeword synchronization system comprising:
- a sampling arrangement for generating N bitstreams in response to a received data stream, where N is an integer;
- a set of N codeword synchronization modules, each of said N codeword synchronization modules providing a plurality of codeword error signals indicative of a number of errors associated with a corresponding plurality of potential phases of one of said N bitstreams; and
- a phase selection module for identifying one of said codeword error signals as being indicative of a lowest number of errors.
- 21. (Original) The codeword synchronization system of claim 20 wherein a first of said set of N codeword synchronization modules includes:
- an input shift register for receiving a first of said N bitstreams, said first of said N bitstreams containing a codeword, and
- a plurality of syndrome computing modules, each of said syndrome computing modules computing syndromes being associated with a different one of said plurality of potential phases of said codeword.
- 22. (Previously Presented) The codeword synchronization system of claim 21 wherein said first of said set of N codeword synchronization modules further includes a plurality of error

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detection modules, each of said error detection modules determining a number of errors associated with a corresponding one said plurality of potential phases of said codeword using the syndromes produced by an associated one of said plurality of syndrome computing modules.

- 23. (Original) The codeword synchronization system of claim 20 wherein said sampling arrangement includes:
 - a sampling circuit; and
- a clock coupled to said sampling circuit, said clock being operative at N times a data rate of said received data stream.
- 24. (Previously Presented) The codeword synchronization system of claim 23 wherein said sampling arrangement further includes a demultiplexer having an input port connected to said sampling circuit and a set of N output ports connected to said set of N codeword synchronization modules.